

L Number	Hits	Search Text	DB	Time stamp
1	6845	(benzylpyridine benzylpyrimidine benzylquinoline phenylpyridine phenylpyrimidine phenylquinoline ((benzyl phenyl) adj (pyridine pyrimidine quinoline)) )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USOCR	2004/10/08 14:41
3	12	(546/\$.ccls. and (benzylpyridine benzylpyrimidine benzylquinoline phenylpyridine phenylpyrimidine phenylquinoline ((benzyl phenyl) adj (pyridine pyrimidine quinoline)) )) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))	USOCR	2004/10/08 14:33
2	261	546/\$.ccls. and (benzylpyridine benzylpyrimidine benzylquinoline phenylpyridine phenylpyrimidine phenylquinoline ((benzyl phenyl) adj (pyridine pyrimidine quinoline)) )	USOCR	2004/10/08 14:41
4	227	"2" adj (benzylpyridine benzylpyrimidine benzylquinoline phenylpyridine phenylpyrimidine phenylquinoline ((benzyl phenyl) adj (pyridine pyrimidine quinoline)) )	USOCR	2004/10/08 14:54
5	3	fluorophenylpyridine fluorophenylpyrimidine fluorophenylquinoline fluorobenzylpyridine fluorobenzylpyrimidine fluorobenzylquinoline (fluoro adj2 (benzylpyridine benzylpyrimidine benzylquinoline phenylpyridine phenylpyrimidine phenylquinoline ((benzyl phenyl) adj (pyridine pyrimidine quinoline)) ) )	USOCR	2004/10/08 14:58
6	98	fluorophenylpyridine fluorophenylpyrimidine fluorophenylquinoline fluorobenzylpyridine fluorobenzylpyrimidine fluorobenzylquinoline (fluoro adj2 (benzylpyridine benzylpyrimidine benzylquinoline phenylpyridine phenylpyrimidine phenylquinoline ((benzyl phenyl) adj (pyridine pyrimidine quinoline)) ) )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 15:02
7	0	("4" para p) adj fluoro adj "2" adj (phenylpyrimidine benzylpyrimidine)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 15:04
8	0	("4" para p) adj fluoro adj "2" adj (phenyl-pyrimidine benzyl-pyrimidine)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 15:04
9	0	("4" para p) adj fluoro adj "2" adj (phenyl-pyrimidine benzyl-pyrimidine)	USOCR	2004/10/08 15:04
10	0	("4" para p) adj fluoro adj "2" adj (phenylpyrimidine benzylpyrimidine)	USOCR	2004/10/08 15:32
11	0	("20040127502" "20040116697" "20040082780" "2004007769" "20040058964" "20040029902" "20030181446" "6489344" "20030082623" "20030077701" "20020156087" "6245773" "6432950" "6133271" "6417185" "6352993" "5707547" "5599816" "5580872" "5399291").pn.	USOCR	2004/10/08 15:38
12	10	("20040127502" "20040116697" "20040082780" "2004007769" "20040058964" "20040029902" "20030181446" "6489344" "20030082623" "20030077701" "20020156087" "6245773" "6432950" "6133271" "6417185" "6352993" "5707547" "5599816" "5580872" "5399291").pn.	USPAT	2004/10/08 15:38
13	19	("20040127502" "20040116697" "20040082780" "2004007769" "20040058964" "20040029902" "20030181446" "6489344" "20030082623" "20030077701" "20020156087" "6245773" "6432950" "6133271" "6417185" "6352993" "5707547" "5599816" "5580872" "5399291").pn.	USPAT; US-PGPUB	2004/10/08 15:40
14	19	(("20040127502" "20040116697" "20040082780" "2004007769" "20040058964" "20040029902" "20030181446" "6489344" "20030082623" "20030077701" "20020156087" "6245773" "6432950" "6133271" "6417185" "6352993" "5707547" "5599816" "5580872" "5399291").pn.) and pyrimidine	USPAT; US-PGPUB	2004/10/08 16:58

15	35	"4" adj (fluorophenyl fluorobenzyl) adj pyrimidine	USPAT; US-PGPUB	2004/10/08 15:52
16	0	"4" adj (fluorophenyl fluorobenzyl) adj pyrimidine	USOCR	2004/10/08 15:52
17	22	"3" adj (trifluoromethylbenzyl trifluoromethylphenyl (trifluoromethyl adj (benzyl phenyl))) adj quinoline 546/33.icls.	USPAT; US-PGPUB	2004/10/08 17:00
-	12		USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 10:58
-	520	546/112.icls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 10:58
-	206	546/112.icls. and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 14:32
-	53	(546/112.icls. and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and quinoline	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 11:37
-	59187	546/\$.icls,ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 11:40
-	931	546/\$.icls,ccls. and (phenyl adj2 (quinoline pyridine pyrimidine))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 11:41
-	402	(546/\$.icls,ccls. and (phenyl adj2 (quinoline pyridine pyrimidine))) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 12:17
-	227	((546/\$.icls,ccls. and (phenyl adj2 (quinoline pyridine pyrimidine))) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @ad<20000630	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 12:29
-	166	((546/\$.icls,ccls. and (phenyl adj2 (quinoline pyridine pyrimidine))) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @rlad<20000630	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 11:44
-	281	((((546/\$.icls,ccls. and (phenyl adj2 (quinoline pyridine pyrimidine))) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @ad<20000630) (((546/\$.icls,ccls. and (phenyl adj2 (quinoline pyridine pyrimidine))) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @rlad<20000630)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 12:14
-	0	perfluormethyl adj2 phenylquinoline	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 12:15

-	0	trifluormethyl adj2 phenylquinoline	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 12:15
-	0	fluormethyl adj2 phenylquinoline	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 12:15
-	417	("2" adj phenylquinoline) or ("2" adj phenyl adj quinoline)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 12:17
-	99	((("2" adj phenylquinoline) or ("2" adj phenyl adj quinoline)) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 12:59
-	27	((("2" adj phenylquinoline) or ("2" adj phenyl adj quinoline)) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @ad<20000630	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 13:00
-	17	((("2" adj phenylquinoline) or ("2" adj phenyl adj quinoline)) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @rlad<20000630	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 12:29
-	30	((("2" adj phenylquinoline) or ("2" adj phenyl adj quinoline)) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @ad<20000630) (((("2" adj phenylquinoline) or ("2" adj phenyl adj quinoline)) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @rlad<20000630)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 12:58
-	626	benzylpyridine benzyl-pyridine	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 14:29
-	251	(benzylpyridine benzyl-pyridine) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 13:00
-	86	((benzylpyridine benzyl-pyridine) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @ad<20000630	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 13:01
-	48	((benzylpyridine benzyl-pyridine) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @rlad<20000630	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 13:01
-	105	((((benzylpyridine benzyl-pyridine) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @ad<20000630) (((benzylpyridine benzyl-pyridine) and (perfluoro\$10 CF3 "CF.sub.3" (C?sub.? adj F?sub.\$3))) and @rlad<20000630)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/07 13:01

?b 391,398;s 3(w) (trifluoromethylbenzyl or trifluoromethylphenyl or trifluoromethyl(w)b  
enzyl or trifluoromethyl(w)phenyl) (w) (quinoline or quinolines)

08oct04 15:44:59 User264704 Session D175.8

\$10.87 4.829 DialUnits File411

\$10.87 Estimated cost File411

\$1.50 TELNET

\$12.37 Estimated cost this search

\$308.04 Estimated total session cost 10.190 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 391:Beilstein Reactions July 2004

(c) 2004 Beilstein GmbH

File 398:Chemsearch 1957-2004/Sep

(c) 2004 Amer.Chem.Soc.

**\*File 398: Use is subject to the terms of your user/customer agreement.**

Problems with SORT. RANK charge added. See HELP RATES 398.

Set	Items	Description
-----	-------	-------------

Set	Items	Description
-----	-------	-------------

15442246	3	
----------	---	--

887	TRIFLUOROMETHYLBENZYL
-----	-----------------------

7574	TRIFLUOROMETHYLPHENYL
------	-----------------------

750079	TRIFLUOROMETHYL
--------	-----------------

1158475	BENZYL
---------	--------

4740	TRIFLUOROMETHYL(W) BENZYL
------	---------------------------

750079	TRIFLUOROMETHYL
--------	-----------------

13712746	PHENYL
----------	--------

274704	TRIFLUOROMETHYL(W) PHENYL
--------	---------------------------

593817	QUINOLINE
--------	-----------

39519	QUINOLINES
-------	------------

S1	73	3(W) (TRIFLUOROMETHYLBENZYL OR TRIFLUOROMETHYLPHENYL OR
----	----	---

		TRIFLUOROMETHYL(W) BENZYL OR
--	--	------------------------------

		TRIFLUOROMETHYL(W) PHENYL) (W) (QUINOLINE OR QUINOLINES)
--	--	--

?t s2/full/all

>>>Set 2 does not exist

?t s1/full/all

1/9/1 (Item 1 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 9394770

Reactants

BN=265667 toluene-4-sulfonic acid-(6)quinolyl ester

BN=6084746 m-(trifluoromethyl)phenylboronic acid

Products

BN=9490225 6-(3 - trifluoromethyl - phenyl) - quinoline

No. of Reaction Details: 1

Reaction Details

Classification: Preparation

Yield: 91 percent (BN=9490225)

Reagent: Pd(OAc)<sub>2</sub>

dicyclohexyl-(2',4',6'-triisopropyl-biphenyl-2-yl)phosphane

K<sub>3</sub>PO<sub>4</sub>\*H<sub>2</sub>O

Solvent: tetrahydrofuran

Time: 3 hour(s)

Temp: 80 C

Reaction Type: Suzuki-Miyaura coupling (Ref. 1)

References

- 1, 6413392 Nguyen, Hanh Nho ; Huang, Xiaohua ; Buchwald, Stephen L. The First General Palladium Catalyst for the Suzuki-Miyaura and Carbonyl Enolate Coupling of Aryl Arenesulfonates JACSAT ; J.Amer.Chem.Soc. ; 125-39(2003)11818 - 11819;

1/9/2 (Item 2 from file: 391)

**Reaction Id: 9248682**

**Reactants**

BN=8911220 N-(2-(2-phenylethynyl)benzylidene)-tert-butylamine  
BN=2088596 1-iodo-3-trifluoromethyl-benzene

**Products**

BN=9280572 3-phenyl-4-(3-trifluoromethyl-phenyl)-isoquinoline  
No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 51 percent (BN=9280572)

Reagent: potassium carbonate Pd(PPh<sub>3</sub>)<sub>4</sub>

Solvent: dimethylformamide

Time: 10 hour(s)

Temp: 100 C (Ref. 1)

**References**

- 1, 6383419 Dai, Guangxiu ; Larock, Richard C. Synthesis of 3,4-Disubstituted Isoquinolines via Palladium-Catalyzed Cross-Coupling of 2-(1-Alkynyl)benzaldehydes and Organic Halides JOCEAH ; J.Org.Chem. ; 68-3(2003)920 - 928;

1/9/3 (Item 3 from file: 391)

**Reaction Id: 9190270**

**Reactants**

BN=2088596 1-iodo-3-trifluoromethyl-benzene  
BN=9291238

8-allyl-4-methyl-2-trifluoromethanesulfonyloxy-quinoline-6-carboxylic acid ethyl ester

**Products**

BN=9294461 8-allyl-4-methyl-2-(3-trifluoromethyl-phenyl)-quinoline-6-carboxylic acid ethyl ester  
No. of Reaction Details: 1

**Reaction Details**

Classification: Multistage

Yield: 81 percent (BN=9294461)

No. of Stages: 3

Stage 1:

Reagent: n-BuLi

Solvent: hexane tetrahydrofuran

Time: 30 min

Temp: -78 C

Stage 2:

Reagent: ZnBr<sub>2</sub>

Solvent: hexane tetrahydrofuran

Time: 30 min

Temp: 25 C

Stage 3:

Reagent: tris-o-furylphosphine

Catalyst: Pd(dba)<sub>2</sub>

Solvent: hexane tetrahydrofuran

Time: 2 hour(s)

Temp: 25 C

Reaction Type: Negishi cross-coupling reaction

Reactant BN: 9291238

Reactant:

8-allyl-4-methyl-2-trifluoromethanesulfonyloxy-quinoline-6-carboxylic acid ethyl ester (Ref. 1)

**References**

- 1, 6376542 Staubitz, Anne ; Dohle, Wolfgang ; Knochel, Paul Expedient Functionalization of Quinolines in Position 2 and 8 via Polyfunctional Aryl- and Heteroarylmagnesium Intermediates SYNTBF ;

1/9/4 (Item 4 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 9190267**

**Reactants**

BN=8982533 tert -butyl-(2-phenylethynyl-benzylidene)-amine  
BN=2088596 1-iodo-3-trifluoromethyl-benzene  
BN=3587209 carbon monoxide

**Products**

BN=9286000  
(3-phenyl-isoquinolin-4-yl)-(3-trifluoromethyl-phenyl)-methanone  
BN=9280572 3-phenyl-4-(3 - trifluoromethyl - phenyl )- isoquinoline  
BN=5459 3-phenyl-isoquinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 63 percent (BN=9286000) 5 percent (BN=9280572) 5 percent  
(BN=5459)

Reagent: tri-n-butylamine

Catalyst: Pd(PPh<sub>3</sub>)<sub>4</sub>

Solvent: dimethylformamide

Time: 48 hour(s)

Temp: 100 C

Pres: 760 Torr (Ref. 1)

**References**

- 1, 6371375 Dai, Guangxiu ; Larock, Richard C. Synthesis of 3-Substituted 4-Aroylisoquinolines via Pd-Catalyzed Carbonylative Cyclization of 2-(1-Alkynyl)benzaldimines JOCEAH ; J.Org.Chem. ; 67-20(2002)7042 - 7047;

1/9/5 (Item 5 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 8961293**

**Reactants**

BN=640151 1-(3-trifluoromethyl-phenyl)-ethanone  
BN=1072211 (2-amino-phenyl)-methanol

**Products**

BN=219951 2-(3 - trifluoromethyl - phenyl )- quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 98 percent (BN=219951)

Reagent: KOH

Catalyst: RuCl<sub>2</sub>(=CHPh) (PCy<sub>3</sub>)<sub>2</sub>

Solvent: dioxane

Time: 1 hour(s)

Temp: 80 C (Ref. 1)

**References**

- 1, 6325361 Cho, Chan Sik ; Kim, Bok Tae ; Kim, Tae-Jeong ; Shim, Sang Chul Ruthenium-catalysed oxidative cyclisation of 2-aminobenzyl alcohol with ketones: modified Friedlaender quinoline synthesis CHCOFS ; Chem.Comm. ; 24(2001)2576 - 2577;

1/9/6 (Item 6 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 8759335**

**Reactants**

BN=8770723 4-chloro-6,7-dimethoxy-quinoline-3-carbonitrile  
BN=387672 3-trifluoromethyl-aniline

**Products**

BN=8795272 6,7-dimethoxy-4-(3 - trifluoromethyl - phenylamino )-  
quinoline -3-carbonitrile

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 72 percent (BN=8795272)

Solvent: 2-ethoxy-ethanol

Time: 3 hour(s)

Conditions: Heating

Reaction Type: Condensation (Ref. 1)

**References**

- 1, 6280841 Wissner, Allan ; Berger, Dan M. ; Boshelli, Diane H. ; Floyd, M. Brawner ; Greenberger, Lee M. ; Gruber, Brian C. ; Johnson, Bernard D. ; Mamuya, Nellie ; Nilakantan, Ramaswamy ; Reich, Marvin F. ; Shen, Ru ; et al.

4-Anilino-6,7-dialkoxyquinoline-3-carbonitrile Inhibitors of  
Epidermal Growth Factor Receptor Kinase and Their Bioisosteric  
Relationship to the 4-Anilino-6,7-dialkoxyquinazoline Inhibitors  
JMCMAR ; J.Med.Chem. ; 43 (2000)3244 - 3256;

1/9/7 (Item 7 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 8700135**

**Reactants**

BN=1100739 3-trifluoromethyl-styrene

BN=605631 aniline

**Products**

BN=8727382 2-(3-trifluoromethyl-benzyl)-3-(3 - trifluoromethyl -  
phenyl )- quinoline

BN=8694431 phenyl-(2-(3-trifluoromethyl-phenyl)-ethyl)-amine

BN=2438980 m-Trifluormethyl-ethylbenzol

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 16 percent (BN=8727382) 15 percent Chromat. (BN=8694431)

Reagent: PPh3

Catalyst: Rh(cod)2)BF4

Solvent: toluene

Time: 48 hour(s)

Temp: 140 C

Reaction Type: Cyclization Anti-Markovnikov hydroamination (Ref. 1)

**References**

- 1, 6270061 Beller, Matthias ; Thiel, Oliver R. ; Trauthwein, Harald ; Hartung, Christian G. Part 7: Anti-Markovnikov Functionalizations of Unsaturated Compounds. Amination of Aromatic Olefins with Anilines: A New Domino Synthesis of Quinolines CEUJED ; Chem.Europ.J. ; 6-14(2000)2513 - 2522;

1/9/8 (Item 8 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 6643383**

**Products**

BN=1514087 6-methoxy-8-nitro-2-(3 - trifluoromethyl - benzyloxy )-  
quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1/9/9 (Item 9 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 6641871**

**Products**

BN=1512255 6-methoxy-8-nitro-5-( 3 - trifluoromethyl - phenylsulfanyl ) - quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2587521 Tanabe; et al JMCMAR ; J.Med.Chem. ; 21 (1978)133

1/9/10 (Item 10 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 6512137**

**Products**

BN=1353564 6-bromo-3-propyl-2-( 3 - trifluoromethyl - phenyl ) - quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/11 (Item 11 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 6511953**

**Products**

BN=1353339 6-bromo-3-phenyl-2-( 3 - trifluoromethyl - phenyl ) - quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/12 (Item 12 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 6511269**

**Products**

BN=1352513 6-bromo-3-ethyl-2-( 3 - trifluoromethyl - phenyl ) - quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/13 (Item 13 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.



Reaction Id: 6511032

**Products**

BN=1352230 3-propyl-2-(3 - trifluoromethyl - phenyl )- quinoline  
No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/14 (Item 14 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 6510833

**Products**

BN=1352005 3-phenyl-2-(3 - trifluoromethyl - phenyl )- quinoline  
No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/15 (Item 15 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 6510009

**Products**

BN=1350993 6-bromo-3-methyl-2-(3 - trifluoromethyl - phenyl )- quinoline  
No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/16 (Item 16 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 6509726

**Products**

BN=1350665 3-ethyl-2-(3 - trifluoromethyl - phenyl )- quinoline  
No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/17 (Item 17 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 6509026

**Products**

BN=1349820 6-bromo-2-(3 - trifluoromethyl - phenyl )- quinoline  
No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/18 (Item 18 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 6508753

**Products**

BN=1349491 3-methyl-2-( 3 - trifluoromethyl - phenyl )- quinoline  
No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/19 (Item 19 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5847688

**Products**

BN=500115 6-bromo-3-phenyl-2-( 3 - trifluoromethyl - phenyl )-  
quinoline -4-carboxylic acid  
No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/20 (Item 20 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5846609

**Products**

BN=499805 6-bromo-3-propyl-2-( 3 - trifluoromethyl - phenyl )-  
quinoline -4-carboxylic acid  
No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/21 (Item 21 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5845691

**Products**

BN=498816 6-bromo-3-ethyl-2-( 3 - trifluoromethyl - phenyl )-  
quinoline -4-carboxylic acid  
No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/22 (Item 22 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5845568

**Products**

BN=498686 3-phenyl-2-( 3 - trifluoromethyl - phenyl )- quinoline  
-4-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/23 (Item 23 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 5845372**

**Products**

BN=498475 3-propyl-2-( 3 - trifluoromethyl - phenyl )- quinoline  
-4-carboxylic acid

No. of ~~Reaction Details~~: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/24 (Item 24 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 5844158**

**Products**

BN=497174 6-bromo-3-methyl-2-( 3 - trifluoromethyl - phenyl )-  
quinoline -4-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/25 (Item 25 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 5843744**

**Products**

BN=496732 3-ethyl-2-( 3 - trifluoromethyl - phenyl )- quinoline  
-4-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/26 (Item 26 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 5842461**

**Products**

BN=495373 4-( 3 - trifluoromethyl - phenylamino )- quinoline  
-3-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2595542 PATENT American Cyanamid US 3470186 (1967)Chem.Abstr. ;  
71-124275d(1969)

1/9/27 (Item 27 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5841824

**Products**

BN=494682 6-bromo-2-( 3 - trifluoromethyl - phenyl )- quinoline  
-4-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/28 (Item 28 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5841255

**Products**

BN=494073 3-methyl-2-( 3 - trifluoromethyl - phenyl )- quinoline  
-4-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/29 (Item 29 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5839117

**Products**

BN=491790 2-( 3 - trifluoromethyl - phenyl )- quinoline -4-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/30 (Item 30 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5661570

**Products**

BN=458464 N 8 -(4-amino-1-methyl-butyl)-6-methoxy- N 5 -( 3 -  
trifluoromethyl - phenyl )- quinoline -5,8-diamine

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2587521 Tanabe; et al JMCMAR ; J.Med.Chem. ; 21 (1978)133

1/9/31 (Item 31 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5660833

**Products**

BN=457669 6-chloro-4-(4-chloro- 3 - trifluoromethyl - phenylamino ) -  
quinoline -3-carboxylic acid ethyl ester

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

- 1, 2595542 PATENT American Cyanamid US 3470186 (1967) Chem. Abstr. ;  
71-124275d(1969)

1/9/32 (Item 32 from file: 391)

DIALOG(R) File 391: Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 5660821**

**Products**

BN=457656 6-chloro-4-(2-chloro- 3 - trifluoromethyl - phenylamino ) -  
quinoline -3-carboxylic acid ethyl ester

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

- 1, 2595542 PATENT American Cyanamid US 3470186 (1967) Chem. Abstr. ;  
71-124275d(1969)

1/9/33 (Item 33 from file: 391)

DIALOG(R) File 391: Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 5658649**

**Products**

BN=455308 6-chloro-4-(2-chloro- 3 - trifluoromethyl - phenylamino ) -  
quinoline -3-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

- 1, 2595542 PATENT American Cyanamid US 3470186 (1967) Chem. Abstr. ;  
71-124275d(1969)

1/9/34 (Item 34 from file: 391)

DIALOG(R) File 391: Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 5658411**

**Products**

BN=455062 4-(4-chloro- 3 - trifluoromethyl - phenylamino ) - quinoline  
-3-carboxylic acid ethyl ester

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

- 1, 2595542 PATENT American Cyanamid US 3470186 (1967) Chem. Abstr. ;  
71-124275d(1969)

1/9/35 (Item 35 from file: 391)

DIALOG(R) File 391: Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 5656044**

**Products**

BN=452514 6-chloro-4-( 3 - trifluoromethyl - phenylamino ) - quinoline  
-3-carboxylic acid ethyl ester

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

- 1, 2595542 PATENT American Cyanamid US 3470186 (1967) Chem. Abstr. ;  
71-124275d(1969)

1/9/36 (Item 36 from file: 391)

DIALOG(R) File 391: Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5654304

**Products**

BN=450656 4-(4-chloro- 3 - trifluoromethyl - phenylamino )- quinoline  
-3-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

- 1, 2595542 PATENT American Cyanamid US 3470186 (1967) Chem. Abstr. ;  
71-124275d(1969)

1/9/37 (Item 37 from file: 391)

DIALOG(R) File 391: Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5654279

**Products**

BN=450624 4-(2-chloro- 3 - trifluoromethyl - phenylamino )- quinoline  
-3-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

- 1, 2595542 PATENT American Cyanamid US 3470186 (1967) Chem. Abstr. ;  
71-124275d(1969)

1/9/38 (Item 38 from file: 391)

DIALOG(R) File 391: Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5653998

**Products**

BN=450325 6,8-dichloro-2-( 3 - trifluoromethyl - phenyl )- quinoline  
-4-carboxylic acid ethyl ester

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

- 1, 2522961 Saggiomo; et al JMCMAR ; J. Med. Chem. ; 11-2(1968)277

1/9/39 (Item 39 from file: 391)

DIALOG(R) File 391: Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5653522

**Products**

BN=449810 6,8-dichloro-2-( 3 - trifluoromethyl - phenyl )- quinoline  
-4-carbonyl chloride

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

- 1, 2522961 Saggiomo; et al JMCMAR ; J. Med. Chem. ; 11-2(1968)277

1/9/40 (Item 40 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5653431

**Products**

BN=449712 6,8-dichloro-2-( 3 - trifluoromethyl - phenyl )- quinoline  
-4-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2522961 Saggiomo; et al JMCMAR ; J.Med.Chem. ; 11-2(1968)277

1/9/41 (Item 41 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5653299

**Products**

BN=449565 6-chloro-4-( 3 - trifluoromethyl - phenylamino )- quinoline  
-3-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2595542 PATENT American Cyanamid US 3470186 (1967)Chem.Abstr. ;  
71-124275d(1969)

1/9/42 (Item 42 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5648670

**Products**

BN=444712 6-methoxy- N 5 -( 3 - trifluoromethyl - phenyl )- quinoline  
-5,8-diamine

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2587521 Tanabe; et al JMCMAR ; J.Med.Chem. ; 21 (1978)133

1/9/43 (Item 43 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5514173

**Reactants**

BN=111340 8-methyl-quinoline  
3-trifluoromethyl-phenyl lithium

**Products**

BN=251149 8-methyl-2-( 3 - trifluoromethyl - phenyl )- quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Reagent: diethyl ether

Conditions: Erhitzen des Reaktionsprodukts mit Nitrobenzol auf 120grad  
Handbook (Ref. 1)

**References**

1, 997520 Gilman ; Woods JACSAT ; J.Amer.Chem.Soc. ; 66 (1944)1981

1/9/44 (Item 44 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5496699

**Products**

BN=219951 2-( 3 - trifluoromethyl - phenyl )- quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation (half reaction) (Ref. 1)

**References**

1, 2523084 Sharghi ; Lalezari JCEAAX ; J.Chem.Eng.Data ; 10 (1965)196

1/9/45 (Item 45 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5386087

**Reactants**

BN=450325 6,8-dichloro-2-( 3 - trifluoromethyl - phenyl )- quinoline  
-4-carboxylic acid ethyl ester

No. of Reaction Details: 1

**Reaction Details**

Classification: Chemical behaviour (half reaction) (Ref. 1)

**References**

1, 2522961 Saggiomo; et al JMCMAR ; J.Med.Chem. ; 11-2(1968)277

1/9/46 (Item 46 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5386063

**Reactants**

BN=449810 6,8-dichloro-2-( 3 - trifluoromethyl - phenyl )- quinoline  
-4-carbonyl chloride

No. of Reaction Details: 1

**Reaction Details**

Classification: Chemical behaviour (half reaction) (Ref. 1)

**References**

1, 2522961 Saggiomo; et al JMCMAR ; J.Med.Chem. ; 11-2(1968)277

1/9/47 (Item 47 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5386056

**Reactants**

BN=449712 6,8-dichloro-2-( 3 - trifluoromethyl - phenyl )- quinoline  
-4-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Chemical behaviour (half reaction) (Ref. 1)

**References**

1, 2522961 Saggiomo; et al JMCMAR ; J.Med.Chem. ; 11-2(1968)277

1/9/48 (Item 48 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 5351967

**Reactants**

BN=8513560



4-(4-dimethylamino-phenylimino)-2-(3-trifluoromethyl-phenyl)-4H  
-isoquinoline-1,3-dione

**Products**

BN=8500513 2-(3 - trifluoromethyl - phenyl )- isoquinoline  
-1,3,4-trione

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Conditions: Acid hydrolysis

Reaction Type: Hydrolysis (Ref. 1)

**References**

- 1, 6228848 Mazza, Marco ; Modena, Tiziana Herbicidal activity of  
2-substituted 1,3,4-(2H)-isoquinolinetrienes FRMCE8 ; Farmaco ;  
54-6(1999)339 - 345;

1/9/49 (Item 49 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 5290986**

**Reactants**

BN=8218019 3-(2-amino-phenyl)-1-(3-trifluoromethyl-phenyl)-propynone

**Products**

BN=8425391 4-bromo-2-(3 - trifluoromethyl - phenyl )- quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 62 percent (BN=8425391)

Reagent: NaBr

Solvent: acetic acid

Time: 17 hour(s)

Temp: 60 C

Reaction Type: Addition (Ref. 1)

**References**

- 1, 6210000 Arcadi, Antonio ; Marinelli, Fabio ; Rossi, Elisabetta  
Synthesis of Functionalised Quinolines through Tandem  
Addition/Annulation Reactions of beta -(2-Aminophenyl)- alpha, beta  
-Ynones TETRAB ; Tetrahedron ; 55-46(1999)13233 - 13250;

1/9/50 (Item 50 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 5281231**

**Reactants**

BN=8218019 3-(2-amino-phenyl)-1-(3-trifluoromethyl-phenyl)-propynone

BN=605262 sodium ethoxide

**Products**

BN=8427211 4-ethoxy-2-(3 - trifluoromethyl - phenyl )- quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 92 percent (BN=8427211)

Solvent: ethanol

Time: 2.5 hour(s)

Temp: 25 C

Reaction Type: Addition (Ref. 1)

**References**

- 1, 6210000 Arcadi, Antonio ; Marinelli, Fabio ; Rossi, Elisabetta  
Synthesis of Functionalised Quinolines through Tandem  
Addition/Annulation Reactions of beta -(2-Aminophenyl)- alpha, beta  
-Ynones TETRAB ; Tetrahedron ; 55-46(1999)13233 - 13250;

1/9/51 (Item 51 from file: 391)

**Reaction Id: 5120425**

**Reactants**

BN=8218019 3-(2-amino-phenyl)-1-(3-trifluoromethyl-phenyl)-propynone

**Products**

BN=219951 2-(3-trifluoromethyl-phenyl)-quinoline

BN=8214150 2-(3-trifluoromethyl-phenyl)-1,2,3,4-tetrahydro-quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 71 percent (BN=219951) 12 percent (BN=8214150)

Reagent: HCOONH<sub>4</sub>

Catalyst: 10 percent Pd/C

Solvent: methanol

Time: 1.5 hour(s)

Temp: 70 C (Ref. 1)

**References**

- 1, 6163964 Cacchi, Sandro ; Fabrizi, Giancarlo ; Marinelli, Fabio The Palladium-Catalyzed Transfer Hydrogenation/Heterocyclization of beta -(2-Aminophenyl)- alpha, beta -ynones. An Approach to 2-Aryl- and 2-Vinylquinolines SYNLES ; Syn.Lett. ; 4(1999)401 - 404;

1/9/52 (Item 52 from file: 391)

**Reaction Id: 4091308**

**Reactants**

BN=7137769

3-chloro-4,4,4-trifluoro-2-(3-trifluoromethyl-phenyl)-but-2-enal

BN=605631 aniline

**Products**

BN=7143243 2-trifluoromethyl-3-(3-trifluoromethyl-phenyl)-quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 82 percent (BN=7143243)

Solvent: acetic acid

Time: 30 min

Conditions: Heating (Ref. 1)

**References**

- 1, 5949342 Greif, Dieter ; Riedel, Dirk ; Feindt, Andreas ; Pulst, Manfred (German) Synthesis of CF<sub>3</sub>-Substituted Quinolines from beta -Chloro- beta -trifluoromethyl-vinylaldehydes. I. JPCCEM ; J.Prakt.Chem./Chem.-Ztg. ; 337-1(1995)34-37;

1/9/53 (Item 53 from file: 391)

**Reaction Id: 4085027**

**Reactants**

BN=7137769

3-chloro-4,4,4-trifluoro-2-(3-trifluoromethyl-phenyl)-but-2-enal

BN=471556 4-methoxy-aniline

**Products**

BN=7146178 6-methoxy-2-trifluoromethyl-3-(3-trifluoromethyl-phenyl)-quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 75 percent (BN=7146178)

Solvent: acetic acid  
Time: 30 min  
Conditions: Heating (Ref. 1)

#### References

- 1, 5949342 Greif, Dieter ; Riedel, Dirk ; Feindt, Andreas ; Pulst, Manfred (German) Synthesis of CF<sub>3</sub>-Substituted Quinolines from beta -Chloro- beta -trifluoromethyl-vinylaldehydes. I. JPCCEM ; J.Prakt.Chem./Chem.-Ztg. ; 337-1(1995)34-37;

1/9/54 (Item 54 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 3637708

#### Reactants

BN=6616511 5,7-dichloro-4-( 3 - trifluoromethyl - phenylamino ) - quinoline -3-carboxylic acid ethyl ester

#### Products

BN=6616371 5,7-dichloro-4-( 3 - trifluoromethyl - phenylamino ) - quinoline -3-carboxylic acid

No. of Reaction Details: 1

#### Reaction Details

Classification: Preparation

Reagent: NaOH

Solvent: ethanol (Ref. 1)

#### References

- 1, 5849190 Savini, Luisa ; Assarelli, Paola ; Pellerano, Cesare ; Bruni, Giancarlo NEW QUINOLINE DERIVATIVES: SYNTHESIS AND EVALUATION FOR ANTIINFLAMMATORY AND ANALGESIC PROPERTIES - NOTE II FRMCE8 ; Farmaco ; 48-6(1993)805-826;

1/9/55 (Item 55 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 3637329

#### Reactants

BN=6615336 7-fluoro-4-( 3 - trifluoromethyl - phenylamino ) - quinoline -3-carboxylic acid ethyl ester

#### Products

BN=6614180 7-fluoro-4-( 3 - trifluoromethyl - phenylamino ) - quinoline -3-carboxylic acid

No. of Reaction Details: 1

#### Reaction Details

Classification: Preparation

Reagent: NaOH

Solvent: ethanol (Ref. 1)

#### References

- 1, 5849190 Savini, Luisa ; Assarelli, Paola ; Pellerano, Cesare ; Bruni, Giancarlo NEW QUINOLINE DERIVATIVES: SYNTHESIS AND EVALUATION FOR ANTIINFLAMMATORY AND ANALGESIC PROPERTIES - NOTE II FRMCE8 ; Farmaco ; 48-6(1993)805-826;

1/9/56 (Item 56 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

Reaction Id: 3576059

#### Reactants

BN=640151 1-(3-trifluoromethyl-phenyl)-ethanone

BN=2717773 2-(1-phenyl-vinyl)-aniline

#### Products

BN=6850555 (+/-)-1,2-dihydro-2-methyl-4-phenyl-2-( 3 - trifluoromethylphenyl ) quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 86 percent (BN=6850555)

Catalyst: p-TsOH

Solvent: toluene

Time: 6 hour(s)

Temp: 110 - 115 C (Ref. 1)

**References**

- 1, 5892186 Walter, Harald 59. A Novel Approach to 2,2-Disubstituted 1,2-Dihydro-4-phenylquinolines HCACAV ; Helv.Chim.Acta ; 77 (1994)608-614;

1/9/57 (Item 57 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 3236816**

**Reactants**

BN=5883170 4- tert -butoxy-6-fluoro-2-( 3 - trifluoromethyl - phenyl ) - quinoline

**Products**

BN=5894659 6-fluoro-4-hydroxy-2-( 3 -( trifluoromethyl ) phenyl ) quinoline hydrobromide

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 68 percent (BN=5894659)

Reagent: aq. HBr

Solvent: ethanol

Time: 1 hour(s)

Conditions: Heating (Ref. 1)

**References**

- 1, 5714543 Janda, Lubomir ; Nguyen, Johnny ; Patterson, Steven E. ; Strekowski, Lucjan Synthesis of Fluoro and Trifluoromethyl Derivatives of 2-Phenylquinolin-4-ol JHTCAD ; J.Heterocycl.Chem. ; 29-7(1992)1753-1756;

1/9/58 (Item 58 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 3227404**

**Reactants**

BN=5854096

3-(3-trifluoromethyl-phenyl)-1,2,3,4-tetrahydro-isoquinoline

**Products**

BN=5839645 1,2,3,4-tetrahydro- 3 -( trifluoromethylphenyl ) isoquinoline hydrochloride

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Reagent: 10percent HCl

Solvent: diethyl ether

(Comment: Yield given) (Ref. 1)

**References**

- 1, 5708242 Maryanoff, Bruce E. ; Rebarchak, Mary C. Use of the N-Formyliminium Ion Cyclization for the Synthesis of 3-Aryl-1,2,3,4-tetrahydroisoquinolines SYNTBF ; Synthesis ; 12(1992)1245-1248;

1/9/59 (Item 59 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 3217121**

**Reactants**

BN=5823308 2-formyl-1,2,3,4-tetrahydro-3-( 3 - trifluoromethylphenyl )- isoquinoline

**Products**

BN=5854096

3-(3-trifluoromethyl-phenyl)-1,2,3,4-tetrahydro-isoquinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Reagent: KOH

Solvent: ethanol

Time: 2.3 hour(s)

Conditions: Heating (Ref. 1)

**References**

- 1, 5708242 Maryanoff, Bruce E. ; Rebarchak, Mary C. Use of the N-Formyliminium Ion Cyclization for the Synthesis of 3-Aryl-1,2,3,4-tetrahydroisoquinolines SYNTBF ; Synthesis ; 12(1992)1245-1248;

1/9/60 (Item 60 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 3139989**

**Reactants**

BN=5576289 4-(3-trifluoromethyl-phenyl)-1H -quinolin-2-one

**Products**

BN=5576284 2-chloro-4-( 3 - trifluoromethyl - phenyl )- quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 95 percent (BN=5576284)

Reagent: SOCl<sub>2</sub>/DMF

Solvent: CHCl<sub>3</sub>

Time: 30 min

Temp: 50 C (Ref. 1)

**References**

- 1, 5670065 Hino, Katsuhiko ; Kawashima, Katsuyoshi ; Oka, Makoto ; Nagai, Yasutaka ; Uno, Hitoshi ; Matsumoto, Jun-ichi A Novel Class of Antiulcer Agents. 4-Phenyl-2-(1-piperazinyl)quinolines CPBTAL ; Chem.Pharm.Bull. ; 37-1(1989)110-115;

1/9/61 (Item 61 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 2906078**

**Reactants**

BN=506211 2-oxo-propionic acid

BN=2327537 3-trifluoromethyl-benzaldehyde

BN=605631 aniline

**Products**

BN=491790 2-( 3 - trifluoromethyl - phenyl )- quinoline -4-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 70 percent (BN=491790)

Solvent: ethanol

Time: 2 hour(s)

Conditions: Heating (Ref. 1)

**References**

- 1, 5715838 Aboul-Enein, Hassan Y. ; Ibrahim, Said E. Synthesis and

analgesic-anti-inflammatory activity of certain fluorinated  
cinchophen analogues JFLCAR ; J.Fluorine Chem. ; 59-2(1992)233-237;

1/9/62 (Item 62 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 2762682**

**Reactants**

BN=4771609 8-chloro- N 6  
-(4-diethylamino-1-methyl-butylidene)-2,4-dimethyl- N 5 -( 3 -  
trifluoromethyl - phenyl )- quinoline -5,6-diamine

**Products**

BN=4772574  
8-chloro-6-(4-diethylamino-1-methylbutylamino)-2,4-dimethyl-5-(3-tri-  
fluoromethylphenylamino)quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Reagent: boranedimethylamine, glacial acetic acid

Time: 15 min

Temp: 40 C

(Comment: Yield given) (Ref. 1)

**References**

- 1, 5581396 Parushev, Stoyan ; Vlahov, Yoncho ; Vlahov, Radoslav ;  
Nickel, Peter ; Snatzke, Guenther SYNTHESIS OF POLYSUBSTITUTED  
2,4-DIMETHYLQUINOLINES AS POTENTIAL ANTIMALARIAL DRUGS CCCCAC ;  
Collect.Czech.Chem.Comm. ; 56-5(1991)1110-1115;

1/9/63 (Item 63 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 2422750**

**Reactants**

BN=480412 4,7-dichloro-quinoline-3-carboxylic acid ethyl ester  
BN=387672 3-trifluoromethyl-aniline

**Products**

BN=3631443 7-chloro-4-( 3 - trifluoromethyl - phenylamino )-  
quinoline -3-carboxylic acid ethyl ester

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Time: 15 min

Conditions: Heating (Ref. 1)

**References**

- 1, 5513372 Pellerano, C. ; Savini, L. ; Massarelli, P. ; Bruni, G. ;  
Fiaschi, A. I. NEW QUINOLINE DERIVATIVES: SYNTHESIS AND EVALUATION  
FOR ANTIINFLAMMATORY AND ANALGESIC PROPERTIES - NOTE I FRMCE8 ;  
Farmaco ; 45-3(1990)269-284;

1/9/64 (Item 64 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 2308022**

**Reactants**

BN=3631443 7-chloro-4-( 3 - trifluoromethyl - phenylamino )-  
quinoline -3-carboxylic acid ethyl ester

**Products**

BN=3630098 7-chloro-4-( 3 - trifluoromethyl - phenylamino )-  
quinoline -3-carboxylic acid

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation  
Reagent: 5percent NaOH  
Solvent: ethanol  
Time: 1 hour(s)  
Conditions: Heating (Ref. 1)

**References**

- 1, 5513372 Pellerano, C. ; Savini, L. ; Massarelli, P. ; Bruni, G. ; Fiaschi, A. I. NEW QUINOLINE DERIVATIVES: SYNTHESIS AND EVALUATION FOR ANTIINFLAMMATORY AND ANALGESIC PROPERTIES - NOTE I FRMCE8 ; Farmaco ; 45-3(1990)269-284;

1/9/65 (Item 65 from file: 391)

DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 2228470**

**Reactants**

BN=3556712 2-methyl-propan-2-ol, potassium salt  
BN=5883934 (4-fluoro-2-trifluoromethyl-phenyl)-(1-(3-trifluoromethyl-phenyl)-ethylidene)-amine

**Products**

BN=5883170 4- tert -butoxy-6-fluoro-2-( 3 - trifluoromethyl - phenyl )- quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation  
Yield: 52 percent (BN=5883170)  
Solvent: tetrahydrofuran  
Time: 2 hour(s)  
Conditions: Heating (Ref. 1)

**References**

- 1, 5714543 Janda, Lubomir ; Nguyen, Johnny ; Patterson, Steven E. ; Strekowski, Lucjan Synthesis of Fluoro and Trifluoromethyl Derivatives of 2-Phenylquinolin-4-ol JHTCAD ; J.Heterocycl.Chem. ; 29-7(1992)1753-1756;

1/9/66 (Item 66 from file: 391)

DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 1946441**

**Reactants**

BN=4764835  
6-amino-8-chloro-2,4-dimethyl-5-(3-trifluoromethylphenylamino)quinoline  
BN=1752914 diethyl-(4,4-diethoxy-pentyl)-amine

**Products**

BN=4771609 8-chloro- N N 5 -( 3 - (4-diethylamino-1-methyl-butylidene)-2,4-dimethyl- N 5 -( 3 - trifluoromethyl - phenyl )- quinoline -5,6-diamine

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation  
Reagent: NH4Cl  
Time: 10 min  
Temp: 220 C (Ref. 1)

**References**

- 1, 5581396 Parushev, Stoyan ; Vlahov, Yoncho ; Vlahov, Radoslav ; Nickel, Peter ; Snatzke, Guenther SYNTHESIS OF POLYSUBSTITUTED 2,4-DIMETHYLQUINOLINES AS POTENTIAL ANTIMALARIAL DRUGS CCCCCK ; Collect.Czech.Chem.Comm. ; 56-5(1991)1110-1115;

1/9/67 (Item 67 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 1681328**

**Reactants**

BN=5821174 N-(2-phenyl-1-(3-trifluoromethylphenyl)ethyl)formamide  
BN=1209228 formaldehyde

**Products**

BN=5823308 2-formyl-1,2,3,4-tetrahydro-3-( 3 - trifluoromethylphenyl )- isoquinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Yield: 98 percent (BN=5823308)

Reagent: CF<sub>3</sub>COOH

Time: 4.5 hour(s)

Conditions: Heating (Ref. 1)

**References**

- 1, 5708242 Maryanoff, Bruce E. ; Rebarchak, Mary C. Use of the N-Formyliminium Ion Cyclization for the Synthesis of 3-Aryl-1,2,3,4-tetrahydroisoquinolines SYNTBF ; Synthesis ; 12(1992)1245-1248;

1/9/68 (Item 68 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 1515485**

**Reactants**

BN=5576284 2-chloro-4-( 3 - trifluoromethyl - phenyl )- quinoline  
BN=104361 2-piperazin-1-yl-ethanol

**Products**

BN=5772849 2-{4-(4-(3-trifluoromethyl-phenyl)-quinolin-2-yl)-piperazin-1-yl}-ethanol

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Time: 2 hour(s)

Temp: 130 C (Ref. 1)

**References**

- 1, 5670065 Hino, Katsuhiko ; Kawashima, Katsuyoshi ; Oka, Makoto ; Nagai, Yasutaka ; Uno, Hitoshi ; Matsumoto, Jun-ichi A Novel Class of Antiulcer Agents. 4-Phenyl-2-(1-piperazinyl)quinolines CPBTAL ; Chem.Pharm.Bull. ; 37-1(1989)110-115;

1/9/69 (Item 69 from file: 391)

DIALOG(R)File 391:Beilstein Reactions

(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 1500367**

**Reactants**

BN=5576284 2-chloro-4-( 3 - trifluoromethyl - phenyl )- quinoline  
BN=102971 1-ethyl-piperazine

**Products**

BN=5769702 2-(4-ethyl-piperazin-1-yl)-4-( 3 - trifluoromethyl - phenyl )- quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Time: 2 hour(s)

Temp: 130 C (Ref. 1)

**References**

- 1, 5670065 Hino, Katsuhiko ; Kawashima, Katsuyoshi ; Oka, Makoto ; Nagai, Yasutaka ; Uno, Hitoshi ; Matsumoto, Jun-ichi A Novel Class of Antiulcer Agents. 4-Phenyl-2-(1-piperazinyl)quinolines CPBTAL ; Chem.Pharm.Bull. ; 37-1(1989)110-115;



1/9/70 (Item 70 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 1495799**

**Reactants**

BN=5576284 2-chloro-4-( 3 - trifluoromethyl - phenyl )- quinoline  
BN=102555 piperazine

**Products**

BN=5767128 2-piperazin-1-yl-4-( 3 - trifluoromethyl - phenyl )-  
quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Time: 2 hour(s)

Temp: 130 C (Ref. 1)

**References**

- 1, 5670065 Hino, Katsuhiko ; Kawashima, Katsuyoshi ; Oka, Makoto ; Nagai, Yasutaka ; Uno, Hitoshi ; Matsumoto, Jun-ichi A Novel Class of Antiulcer Agents. 4-Phenyl-2-(1-piperaziny)quinolines CPBTAL ; Chem.Pharm.Bull. ; 37-1(1989)110-115;

1/9/71 (Item 71 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 144931**

**Reactants**

BN=1449557 1-bromo-3-trifluoromethyl-benzene

**Products**

BN=219951 2-( 3 - trifluoromethyl - phenyl )- quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Preparation

Reagent: butyl lithium diethyl ether

Conditions: Anschliessend mit Chinolin und Erhitzen des

Reaktionsprodukts mit Nitrobenzol Handbook (Ref. 1)

**References**

- 1, 997520 Gilman ; Woods JACSAT ; J.Amer.Chem.Soc. ; 66 (1944)1981

1/9/72 (Item 72 from file: 391)  
DIALOG(R)File 391:Beilstein Reactions  
(c) 2004 Beilstein GmbH. All rts. reserv.

**Reaction Id: 95255**

**Reactants**

BN=1209227 butyllithium

BN=1696894 diethyl ether

BN=1449557 1-bromo-3-trifluoromethyl-benzene

**Products**

BN=219951 2-( 3 - trifluoromethyl - phenyl )- quinoline

No. of Reaction Details: 1

**Reaction Details**

Classification: Chemical behaviour

Conditions: Umsetzung mit Chinolin und anschliessende Dehydrierung mit

Hilfe von Nitrobenzol Handbook (Ref. 1)

**References**

- 1, 997520 Gilman ; Woods JACSAT ; J.Amer.Chem.Soc. ; 66 (1944)1981

1/9/73 (Item 1 from file: 398)  
DIALOG(R)File 398:Chemsearch  
(c) 2004 Amer.Chem.Soc. All rts. reserv.

CAS REGISTRY NUMBER: 396-84-9

MOLECULAR FORMULA: C<sub>16</sub>H<sub>10</sub>F<sub>3</sub>N

RING SYSTEM DATA:

(01) (nr=01; sr=6; ar= fr=C6.01; ir=46-150-18)

(01) (nr=02; sr=6,6; ar=C5N.01-C6.01; fr=NC5.01-C6.01; ir=591-79-52)

CA NAME(S):

HP=Quinoline (9CI)

SB=2-(3-(trifluoromethyl)phenyl)-

HP=Quinoline (7CI)

SB=2-(.alpha., .alpha., .alpha.-trifluoro-m-tolyl)-

SYNONYMS: 2-(3-Trifluoromethylphenyl)quinoline

SUBFILE: CHEMNAME 4 LITERATURE REFERENCE(S) IN FILE 399.

LAST UPDATE: 200207

